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Observations of Comet 1886 . . . (*Barnard*).

1886.	Cape Mean Time.	Comet—Star. Δα	Comet—Star. Δδ	No. of Comps.	Obser-ver.	Comet's App. R.A.	Log. (p×Δ)	Comet's App. Dec.	Log. (p×Δ)	Red. to App. Place.		Comp. Star No.
	h m s	m s	′ ″			h m s		° ′ ″		s	″	
May 29	6 1 20·9	+0 47·59	−0 27·3	8·8	F	4 34 29·41	9·7095	−16 57 50·5	0·6685$_n$	−0·71	−9·2	1
June 1	6 10 6·7	−1 25·32	−6 14·7	6·4	F	5 12 2·46	9·7413	−27 42 52·4	0·6059$_n$	−0·88	−11·1	2
5	6 37 12·8	+0 28·98	−7 57·3	4·4	F	5 59 37·69	9·7890	−37 40 51·2	0·5288$_n$	−1·04	−13·8	3
6	6 22 18·8	−0 11·20	−2 20·8	20·16	F	6 10 23·00	9·7942	−39 27 34·5	0·4596$_n$	−1·06	−14·5	4
7	6 8 34·6		−6 16·2	6	F			−41 1 2·4	0·3609$_n$	−1·06	−15·2	5
	6 23 14·6	−1 19·88		10	F	6 20 46·59	9·8008					5
	6 35 45·2	−0 10·94		10	F	6 20 52·07	9·8058			−1·06	−15·4	6
	6 44 44·5		+2 39·7	6	F			−41 3 14·7	0·4818$_n$			6
10	6 42 22·7	+1 29·90	−3 34·0	12·8	F		9·8274		0·3716$_n$	−1·08	−16·7	7
	7 13 50·4	−0 17·07	+4 30·7	10·8	F		9·8366		0·4833$_n$	−1·07	−16·8	8
12	6 55 56·0	−0 40·77	−3 21·4	20·12	F	7 6 10·	9·8433	−46 27 34·5	0·3656$_n$	−1·05	−17·7	9
15	7 31 39·5		−2 47·7	·4	F			−48 24 58·9	0·4405$_n$	−1·01	−18·5	10
	7 41 38·4	+1 31·32		6·	F	7 28 32·35	9·8677			−1·01	−18·5	10
22	8 42 40·7		+0 42·2	·4	F				0·6026$_n$	−0·81	−20·1	11
	8 54 54·4	−4 5·35		4·	F		9·8821					11
23	7 26 39·9	−0 11·38	+0 22·2	14·12	F	8 13 50·68	9·8880	−51 20 42·6	0·3162$_n$	−0·82	−19·9	12
July 5	7 25 17·0	+1 49·85	+5 20·4	10·8	F	8 59 46·66	9·9090	−53 28 39·9	0·2781$_n$	−0·64	−19·8	13

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1886.	Cape Mean Time.	Comet—Star Δα	Comet—Star Δδ	No. of Comps.	Obser-ver.	Comet's App. R.A.	Log. (p×Δ)	Comet's App. Dec.	Log. (p×Δ)	Red. to App. Place.		Comp. Star No.
	h m s	m s	′ ″			h m s		° ′ ″		s	″	
July 6	7 58 33·9	−0 7·63	+1 13·4	19·12	F	9 2 58·08	9·9169	−53 36 59·8	0·4407$_n$	−0·60	−19·8	14
7	8 0 27·6	+1 23·23	+5 14·4	10·14	F	9 6 0·49	9·9184	−53 44 59·5	0·4514$_n$	−0·61	−19·6	15
8	7 58 4·9	+0 9·01	−3 53·7	9·8	F	9 8 59·21	9·9197	−53 52 50·9	0·4459$_n$	−0·58	−19·6	16
20	8 2 45·8		+5 52·1	4	F			−55 24 8·6	0·5103$_n$	−0·46	−18·4	17
	8 18 21·2	−1 2·46		9	F	9 40 9·90	9·9317					17
21	6 34 48·6		−1 23·3	4	F			−55 31 24·0	9·9816$_n$	−0·46	−18·4	17
	6 41 27·1	+1 7·52		4	F	9 42 19·88	9·9207					17
24	7 25 50·1		−3 4·2	4	F			−55 55 2·1	0·3768$_n$	−0·44	−17·8	18
	7 40 6·5	−0 10·49		12	F	9 49 14·04	9·9417					18
26	8 20 41·0	−1 8·03	−3 1·8	6·6	F	9 53 44·16	9·9363	−56 11 1·7	0·5938$_n$	−0·42	−17·6	19

Notes.

June 15. Moonlight too strong.
July 6. Faint: moonlight
20. Very faint, and so mixed up with two stars that it was almost impossible to fix its position.
21. Cloudy night: observations not of much value.
26. An exceedingly faint and ill-defined patch of light.

July 5. Faint: very bad definition.
8. Large, faint and diffused: difficult.
24. Exceedingly faint: definition very bad.

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Comet 1886 . . . (*Barnard I.*)

Adopted Mean Places of Comparison Stars.

Comp. Star No.	R.A. 1886.	Declination 1886.	Authority.	
	h m s	° ′ ″		
1	4 33 42·53	−16 57 14·0	Oeltz. Arg. S. 3251.	
2	5 13 28·66	−27 36 26·6	Oeltz. Arg. S. 3846.	
3	5 59 9·75	−37 32 40·1	Stone 2762.	
4	6 10 35·26	−39 24 59·2	$9\frac{1}{2}$ mag. = Stone 2926	$-5^{m}\ 27^{s}\cdot23.$ $+1'\ 12''\cdot2.$
5	6 22 7·53	−40 54 31·0	Stone 2995.	
6	6 21 4·07	−41 5 39·0	10 mag. = Stone 3017	$-3^{m}\ 5^{s}\cdot00.$ $-1'\ 51''\cdot3.$
7	6 48 (6)	−44 38	9 mag.	
8	6 49 (53)	−44 46	9 mag.	
9	7 6 52·	−46 23 55·4	10 mag. = C.Z. vii. 260	$+2^{m}\ 53^{s}\cdot28.$ $+2'\ 17''\cdot4.$
10	7 27 2·04	−48 21 52·7	Cord. Z. vii. 1876.	
11	8 13 (9)	−51 6	9 mag.	
12	8 14 2·88	−51 20 44·9	$8\frac{1}{2}$ mag. = C.Z. viii. 1471	$-3^{m}\ 57^{s}\cdot87.$ $-0'\ 44''\cdot6.$
13	8 57 57·45	−53 33 40·5	10 mag. = C.Z. viii. 4702	$-0^{m}\ 22^{s}\cdot17.$ $+5'\ 42''\cdot7.$
14	9 3 6·31	−53 37 53·4	C.Z. ix. 229.	
15	9 4 37·87	−53 49 54·3	$8\frac{1}{2}$ mag. = C.Z. ix. 416	$-0^{m}\ 36^{s}\cdot60.$ $+4'\ 36''\cdot2.$
16	9 8 50·78	−53 48 37·6	C.Z. ix. 666.	
17	9 41 12·82	−55 29 42·3	C.Z. ix. 3183.	
18	9 49 24·97	−55 51 40·1	C.Z. ix. 3790.	
19	9 54 52·61	−56 7 42·3	C.Z. ix. 4203.	

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Comet Brooks I. (1886).

1886.	Cape Mean Time. h m s	Comet - Star. Δα m s	Comet - Star. Δδ ′ ″	No. of Comps.	Obser-ver.	Comet's App. R.A. h m s	Log. (p × Δ)	Comet's App. Decl. ° ′ ″	Log. (p × Δ)	Red. to App. Place. s	Red. to App. Place. ″	Comp. Star No.
July 5	6 31 14·3	−1 22·96	+3 30·5	6·4	F		9·6810		$0·6589_n$	−0·03	−11·6	1
6	6 18 46·5	−0 27·10	+3 53·1	16·16	F	8 30 41·86	9·6735	− 9 15 26·1	$0·6512_n$	−0·01	−11·6	2
7	6 26 17·1	+0 31·60	−2 3·6	20·16	F	8 36 56·66	9·6768	− 9 29 57·7	$0·6523_n$	0·00	−11·5	3
8	6 33 31·7	+1 3·55	+1 17·6	16·12	F		9·6799		$0·6537_n$	+0·02	−11·5	4
9	6 30 55·9	+0 1·33	+0 27·2	30·16	F		9·6774		$0·6501_n$	+0·04	−11·5	5
12	6 48 53·1	−2 29·03	−7 29·3	4·4	F	9 5 15·51	9·6853	−10 27 24·8	$0·6552_n$	+0·10	−11·4	6
14	6 32 30·5	+1 3·07	−2 6·4	10·8	F	9 15 17·89	9·6755	−10 44 58·6	$0·6432_n$	+0·13	−11·2	7
	6 32 30·5	−0 46·02	+0 7·7	10·8	F		9·6755		$0·6432_n$	+0·13	−11·2	8
20	6 39 1·1	+0 54·38	−1 32·0	16·10	F	9 42 9·29	9·6789	−11 26 23·8	$0·6417_n$	+0·22	−10·7	9
	6 39 1·1	−0 38·05	+1 14·2	16·10	F	9 42 9·21	9·6789	−11 26 29·0	$0·6417_n$	+0·22	−10·7	10
24	6 49 10·1	+0 33·75	−2 5·2	14·8	F	9 57 40·53	9·6849	−11 47 27·4	$0·6461_n$	+0·27	−10·3	11
26	6 41 26·3	+1 45·79	+1 16·3	10·8	F	10 4 47·09	9·6815	−11 56 33·8	$0·6409_n$	+0·29	−10·1	12
28	6 37 15·7	−0 52·36	+1 4·0	8·6	F	10 11 33·04	9·6800	−12 5 7·5	$0·6382_n$	+0·32	− 9·8	13
29	6 41 55·1	+0 19·19	−1 23·9	10·8	F	10 14 50·26	9·6829	−12 9 8·9	$0·6411_n$	+0·33	− 9·7	14
30	6 46 25·4	−1 49·76	−1 57·1	8·8	F	10 18 2·49	9·6861	−12 13 12·5	$0·6446_n$	+0·35	− 9·6	15

Notes.

July 5. A bright circular mass, about $\frac{3}{4}'$ in diameter, gradually condensed toward the centre.
12. Hazy sky: observations rough. 14. Comet very faint: bright moonlight.
20. A diffused mass without any particular condensation.
24. Definition bad. A rather faint diffused patch of light: does not admit of very accurate observation.
29. Faint and ill-defined. A difficult object to observe. 30. Very faint.